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- PRINCE TION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLICATION NO. 09/758,573	01/10/2001	Kendyl A. Roman	9422		
7590 12/15/2003 Kendyl A. Roman			EXAMINER		
			TUNG, KEE M		
730 Bantry Cou	ırt		ART UNIT	PAPER NUMBER	
Sunnyvale, CA	94007-3402		2676	9/	
			DATE MAILED: 12/15/200	3	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	lo.	Applicant(s)			
Office Action Summary		09/758,573		ROMAN, KENDYL A.			
		Examiner		Art Unit			
		Kee M Tung		2676			
	The MAILING DATE of this communication a	_	ver sheet with the c	1	dress		
Period f	or Reply	••		·			
THE - Extended after aft	HORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a r D period for reply is specified above, the maximum statutory periou re to reply within the set or extended period for reply will, by stat reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, h reply within the statutory od will apply and will exp tute, cause the application	owever, may a reply be tir minimum of thirty (30) day ire SIX (6) MONTHS from on to become ABANDONE	nely filed s will be considered timely the mailing date of this co			
1)[🛛	Responsive to communication(s) filed on 10) January 2001.					
2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allow closed in accordance with the practice unde				merits is		
Disposit	tion of Claims						
4)🛛	Claim(s) 1-21 is/are pending in the application	on.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.						
6)⊠	Claim(s) 1-21 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and	d/or election requ	rement.				
Applicat	ion Papers						
9)□	The specification is objected to by the Exami	iner.					
10)[The drawing(s) filed on is/are: a) a	ccepted or b)	objected to by the	Examiner.			
	Applicant may not request that any objection to the	he drawing(s) be he	ald in abeyance. Se	e 37 CFR 1.85(a).			
—	Replacement drawing sheet(s) including the corre	· ·		•	` '		
	The oath or declaration is objected to by the	Examiner. Note t	he attached Office	Action or form PT	O-152.		
Priority	under 35 U.S.C. §§ 119 and 120						
a)	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure	ents have been re ents have been re riority documents eau (PCT Rule 17	eceived. eceived in Applicati have been receive 7.2(a)).	ion No ed in this National S	Stage		
13)⊠ <i>i</i> s 3 a	See the attached detailed Office action for a li Acknowledgment is made of a claim for dome ince a specific reference was included in the 17 CFR 1.78. a) The translation of the foreign language packnowledgment is made of a claim for dome	stic priority under first sentence of a provisional applic	r 35 U.S.C. § 119(in the specification of ation has been rec	e) (to a provisional r in an Application [ceived.	Data Sheet.		
י דייייייייייייייייייייייייייייייייייי	eference was included in the first sentence of	the specification	or in an Application	on Data Sheet. 37 (CFR 1.78.		
Attachmer			_				
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) [(PTO-413) Paper No(s) Patent Application (PTO-			

Application/Control Number: 09/758,573

Art Unit: 2676

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 5-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grimsrud (6,651,113) in view of Kobayashi et al (4,550,437 hereinafter "Kobayashi").

Grimsrud teaches a method of increasing image processing performance by copying image data between a memory (20) includes a buffer (36) and an I/O memory (14) by a DMA circuitry (22) controls data transfers between the main memory (20) and data source (14, such as, hard disk, internet connection, satellite receiver and the like, see col. 3, lines 4-7). However, Grimsrud fails to explicitly suggest or teach the I/O memory (14) is a RAM. Kobayashi teaches an image data processing system (Fig. 1) comprising an input device (ITV camera 5, it is noted that if the output data from camera is an analog signal, the analog data will be converted into digital data by a digitizer before stored into the image memory which feature is inherent in the art); an output device (monitor 4); an I/O RAM (image memory 3); an image processing apparatus (2) for processing image data and a supervising processor (1). It would have been obvious to one of ordinary skill in the art at the time the present invention was made to combine the teachings of I/O RAM of Kobayashi into the system of Grimsrud to replace the

Application/Control Number: 09/758,573

Art Unit: 2676

slower hard disk of Grimsrud by the fast RAM of Kobayashi and in order to increase the speed of memory access and thus to obtain high speed and high performance image processing system. Therefore, at least claims 1, 5 and 10-18 would have been obvious.

As per claims 6-9, the combined system fails to explicitly teach the how the image data is being copy. It would have been obvious to one of ordinary skill in the art at the time the present invention was made to modify the teachings of copy and/or transfer functions of Grimsrud in order to add the flexibility to the system by providing different copy function. Therefore, at least claims 6-9 would have been obvious.

3. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grimsrud (6,651,113) and Kobayashi et al (4,550,437 hereinafter "Kobayashi") as applied to claim 1 above, and further in view of Wada (5,959,639) or Anderson et al (6,338,119 hereinafter "Anderson").

The teachings of Grimsrud and Kobayashi are given in previous paragraph of this Office action. However, the combined system fails to explicitly teach a L1 and L2 cache memory. It was old and well known and well used in the art to include a L1 and a L2 cache memory in order to speed up the system processing by access data locally from the cache instead of main memory. Furthermore, both Wada and Anderson teach a L1 and L2 cache memory. Wada teaches a L1 (not shown, but inherent because he suggests a L2 cache, the L1 is inside the MPU) and Anderson teaches a L1 (104) and a L2 (106). It would have been obvious to one of ordinary skill in the art at the time the present invention was made to combine the teachings of Wada or Anderson into the combined system of Grimsrud and Kobayashi in order to provide fast access to the

Application/Control Number: 09/758,573

Art Unit: 2676

storage device and thus improves the overall system performance. Therefore, at least claims 2-4 would have been obvious.

4. Claims 19 -21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grimsrud (6,651,113) and Kobayashi et al (4,550,437 hereinafter "Kobayashi") as applied to claim 16 above, and further in view of Cullen et al (6,592,629 hereinafter "Cullen").

The teachings of Grimsrud and Kobayashi are given in previous paragraph of this Office action. However, the combined system fails to explicitly teach said processor executes programs to enhance, compress/decompress, encrypt/decrypt, or reformat said image data. These are what Cullen teaches. Cullen teaches remote document image storage and retrieval system for a multifunctional peripheral comprising a workstation (630) and a multifunction machine (140) includes a compress/decompress (252), an encrypt (253) and decrypt (254). It would have been obvious to one of ordinary skill in the art at the time the present invention was made to combine the teachings of Cullen into the combined system of Grimsrud and Kobayashi in order to reduce overall storage space and provide fast and secure transmitted over the bus or network as taught by Cullen (col. 5, lines 16-63). Therefore, at least claims 19 and 20 would have been obvious.

Claim 21 is similar in scope to the combination of claims 1, 10-12 and 19-20, and thus is rejected under similar rationale.

Page 5

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kee M Tung whose telephone number is 703-305-9660. The examiner can normally be reached on Tuesday - Friday from 5:30 am - 4:00 pm.

Conclusion

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 703-308-6829. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-0377.

Kee M Tung

Primary Examiner

Art Unit 2676